**Fig. 1**

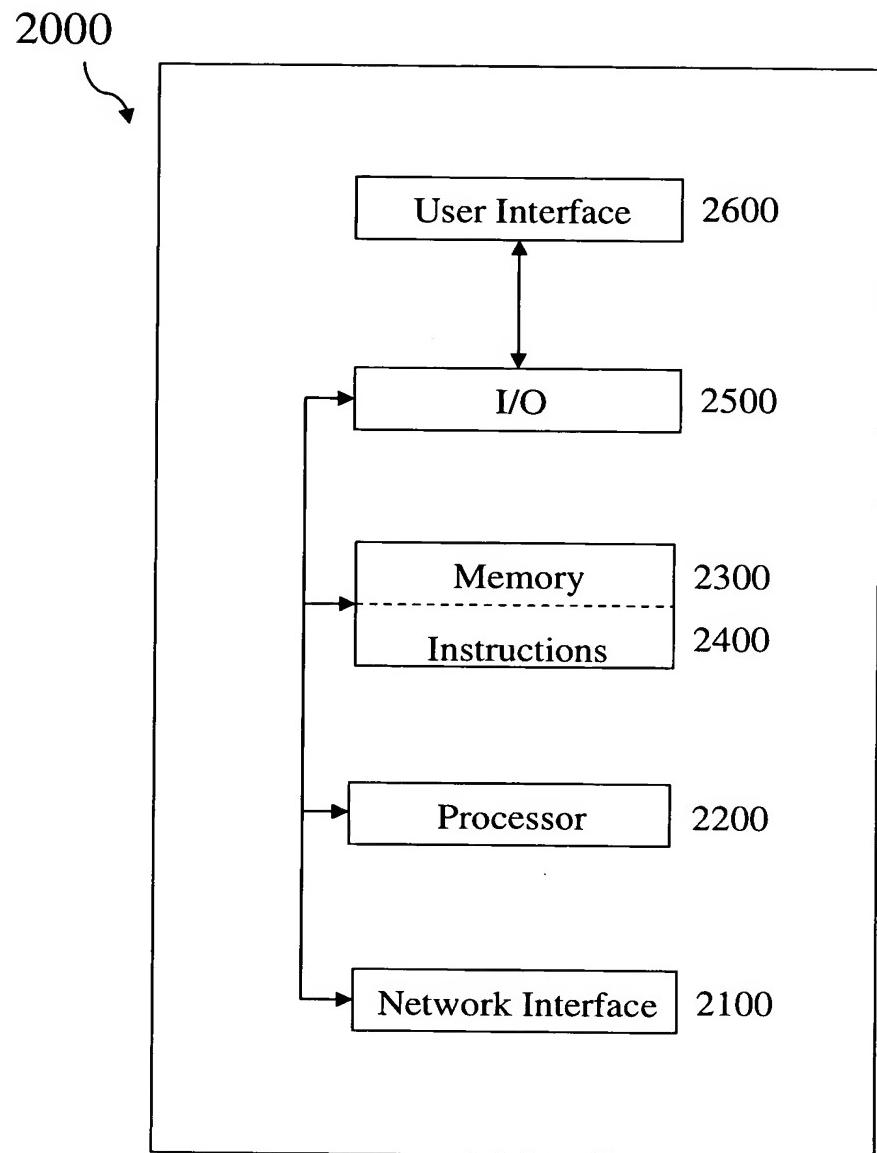
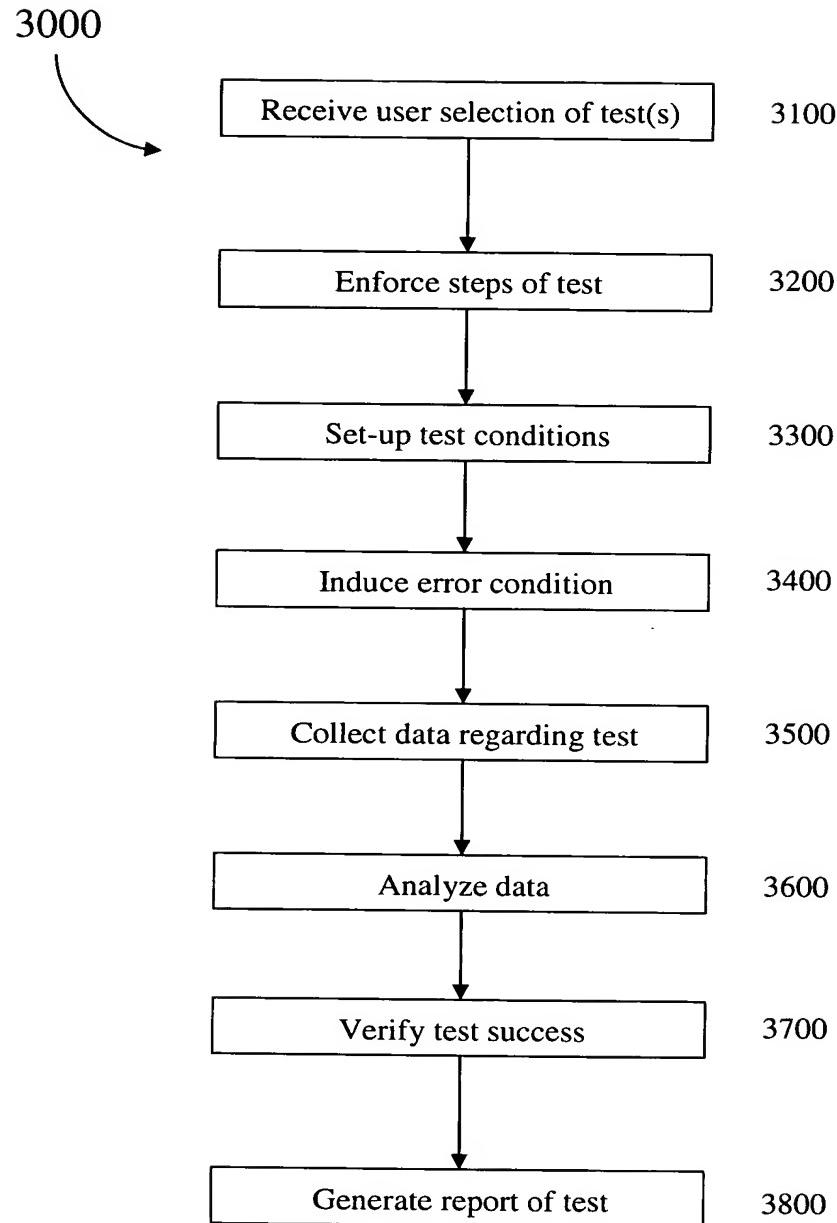


Fig. 2

**Fig. 3**

2003P00225US01

4000

4100 →

Siemens Safety Integrated Acceptance Test

List of Tests

- Overview
- Pulse Disable Path
- External Stops
- SPL Inputs/Outputs
- Wiring Cross Check
- Emergency Stop
- Functional Relationships
- (SBH) Safe Oper. Stop
- (SG) Safe Speed
- (SE) Safe Software Limit
- Firmware

Welcome to Siemens Safety Integrated Acceptance Test

This wizard provides assistance for performing tests and preparing the Acceptance Test Report.

Machine designation: **4410**

Machine type: **4420**

Serial No.: **4430**

Manufacturer: **4440**

PLC version manufacturer: **4450**

Ultimate customer: **4460**

Name of tester: **4470**

Series machine startup: **4480**

Uses "Safe programmable logic." **4490**

4200 4300 4350 4500

< Previous Page **Next Page >** 4700 4600 Exit Help

Fig. 4

4200

List of Tests	
4210	Overview
	Pulse Disable Path
	<input checked="" type="checkbox"/> Test 1
4220	External Stops
	<input checked="" type="checkbox"/> Operator Door
4230	<input checked="" type="checkbox"/> Tool Chain Door
	<input checked="" type="checkbox"/> Test 3
	SPL Inputs/Outputs
	Wiring Cross Check
	Emergency Stop
	Functional Relationships
	(SBH) Safe Oper. Stop
	(SG) Safe Speed
	(SE) Safe Software Limit
4290	<input checked="" type="checkbox"/> ...shed

Fig. 5

6000

Siemens Safety Integrated Acceptance Test

List of Tests

- Overview
- Pulse Disable Path
- External Stops
- SPL Inputs/Outputs
- Wiring Cross Check
- Emergency Stop
- Functional Relationships
- (SBH) Safe Oper. Stop
- (SG) Safe Speed
- (SE) Safe Software Limit
- Finished

Test of Wiring Cross Check

This test verifies that appropriate alarms are generated when one channel of a SI signal is disconnected

Summary

Warning
Protection of operating personnel must be given top priority when safety functions are configured and tested.

Purpose
This test verifies that wiring problem detection of a safety relevant signal is cross checked. If a wiring problem occurs, the appropriate alarm should be generated.

Procedure
Press the "Begin This Test" button and then disconnect a channel of a safety relevant input signal. An example test involves disconnecting one input signal to the protective door/ light barrier. All alarms generated during the test appear in a list. Check the alarms that you wish to include in the report and uncheck the rest. A checkbox is provided for verifying that the appropriate alarms occurred. Repeat the test for all Safety Integrated

This test is not applicable to this machine

Begin This Test

6370

6360

6350

Exit

Help

< Previous Page Next Page >

Fig. 6

7000

Siemens Safety Integrated Acceptance Test

Overview
 Pulse Disable Path
 External Stops
 SPL Inputs/Outputs
 Wiring Cross Check
 Test 1
 Emergency Stop
 Functional Relationships
 (SBH) Safe Oper. Stop
 (SG) Safe Speed
 (SE) Safe Software Limit
 Finished

Test of Wiring Cross Check
 Please perform the set of steps listed below.

1 Disconnect one channel (NCK/PLC/PROFIsafe) of a Cross-Checked input signal. For example disconnect protective door, light barrier or similar.

2 Check the alarms that you wish to appear in the report.
 Alarm 5011
 Alarm 5028
 Alarm 5034
 Alarm 5022

3 Reconnect the disconnected channel.

7350

< Previous Page | Next Page > | Exit | Help

Fig. 7

2003P00225US01

8000

Siemens Safety Integrated Acceptance Test

List of Tests

- Overview
- Pulse Disable Path
- External Stops
- SPL Inputs/Outputs
- Wiring Cross Check
 - Disconnected Input
- Emergency Stop
- Functional Relationships
- (SBH) Safe Oper. Stop
- (SG) Safe Speed
- (SE) Safe Software Limit

Test of Wiring Cross Check

The test is complete. Please provide a description of the test and indicate success or failure.

Test Trigger Condition:	Verify Alarms List	Repeat This Test
Disconnected Input I32.7	Alarm 5011 Alarm 5028 Alarm 5034 Alarm 5022	<input type="button" value="Delete Test Results"/>

Click here if the expected reaction occurred and the expected alarms appear.
 Click here if the expected reaction did NOT occur or the expected alarms did NOT appear.

8350

Fig. 8

2003P00225US01

9000

9350

Siemens Safety Integrated Acceptance Test

List of Tests

Overview
 Pulse Disable Path
 External Stops
 SPL Inputs/Outputs
 Wiring Cross Check
 Emergency Stop
 Functional Relationships
 (SBH) Safe Oper. Stop
 ✓ Axis X1 +
 (SG) Safe Speed
 (SE) Safe Software Limit
 Finsler 200

Test of SBH (Safe Operational Stop) Reaction
The test is complete. Please provide a description of the test and indicate success or failure.

Results:
Axis X1 +

Description	Data	Repeat This Test for Another Axis
Axis/Spindle Name	Axis X1	
Direction	Pos	
Speed exceeded	71 mm/min	
Reaction Time	0.5334 s	
Overtravel	5.795 mm	

Delete Test Results

Test Trigger Condition: Movement with adjusted traversing profile while SBH was active

Test Alarms: Alarm 27011, Alarm 27022, Alarm 300908, Alarm 300914

Click here if operational stop error was properly handled.
 Click here if operational stop error was NOT properly handled.

View Results Graphs

[← Previous Page](#) [Next Page →](#) [Exit](#) [Help](#)

Fig. 9

2003P00225US01

10000

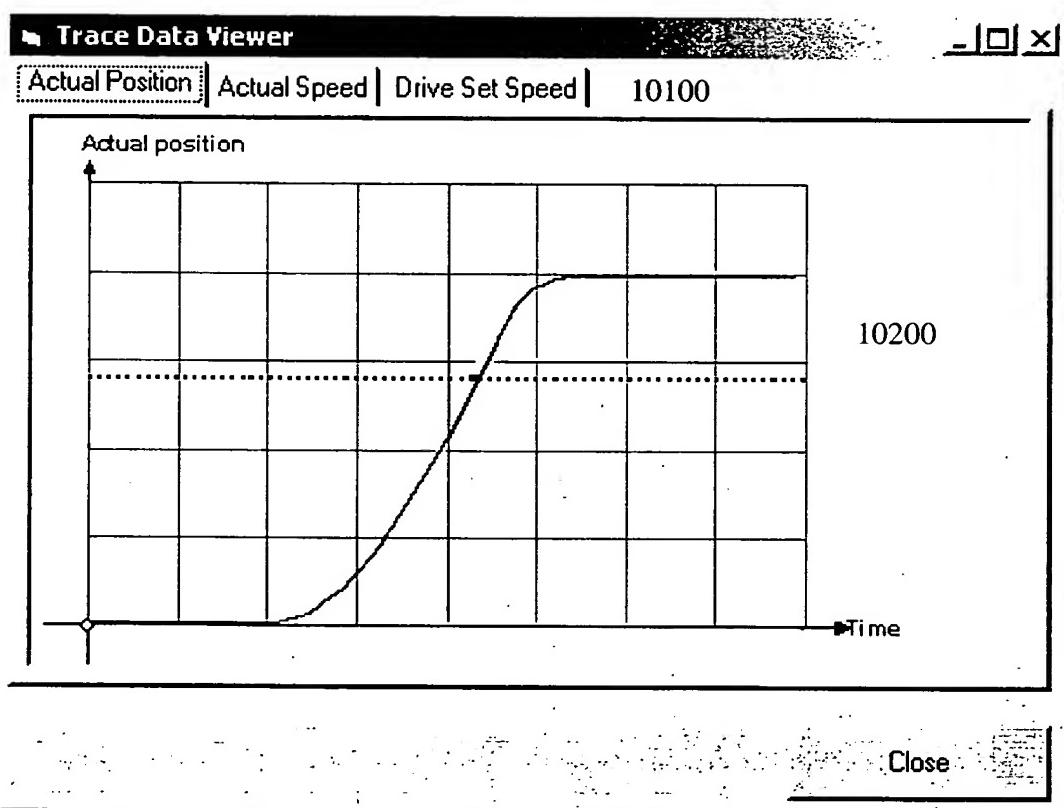


Fig. 10